

Weather Event Simulator Case Simulation Guide

Originating office	:	WFO Norman
Date of case:	:	3 December 2002
Contacts	:	David.Andra@noaa.gov ; Bernard.Meisner@noaa.gov
Weather event	:	Heavy snow and ice storm
Learning objectives	:	<p>Diagnose and forecast precipitation type and accumulation during the first and second periods of the dayshift.</p> <p>Issue TAFs for OKC, PNC, GAG, HBR, and SPS.</p> <p>Diagnose forcing for banded precipitation in Northern Oklahoma between 12-15 UTC Dec 3. (Hint: look at 2D frontogenesis.) Small private plane was downed as it flew through the band of freezing rain in NW OK on the morning of December 3rd.</p>
Available data	:	<p>All WSR-88D data for associated radars and 0.5 elevation angle data for some surrounding sites.</p> <p>All numerical model fields (except MesoEta, MRF and RUC40)</p> <p>Satellite imagery (CONUS scale only)</p> <p>Point data</p> <p>Upper air data</p> <p>MSAS data</p>
Time period	:	<p>1200-2400 UTC December 3, 2002</p> <p>0000-2400 for METARS and NCEP Model output</p>
Type of simulation	:	Static, with time frozen at 1700 UTC December 3rd
Completion time	:	2 to 5 hours depending upon type of simulation
Additional materials	:	None.
Installation	:	Use the CaseInstaller.tcl script to install the case specifying one (1) CD, the appropriate directory (e.g., /data/awips) on the appropriate hard drive (e.g., /dev/sdb1). The case directory will be called 2002Dec03.
Special instructions	:	<p>It is not necessary to convert the case data to the DRT format for this simulation.</p> <p>This case includes localizations for WES versions 1.0, 1.1 and 1.2. Please “cd” to the 2002Dec03/localizationDataSets subdirectory and extract (zcat tar -xvf -) the appropriate localization for your version of the WES software.</p> <p>Hard copies of relevant METARs, a precipitation table, snowfall accumulation map, electric company documentation of power outages are included for verification.</p>